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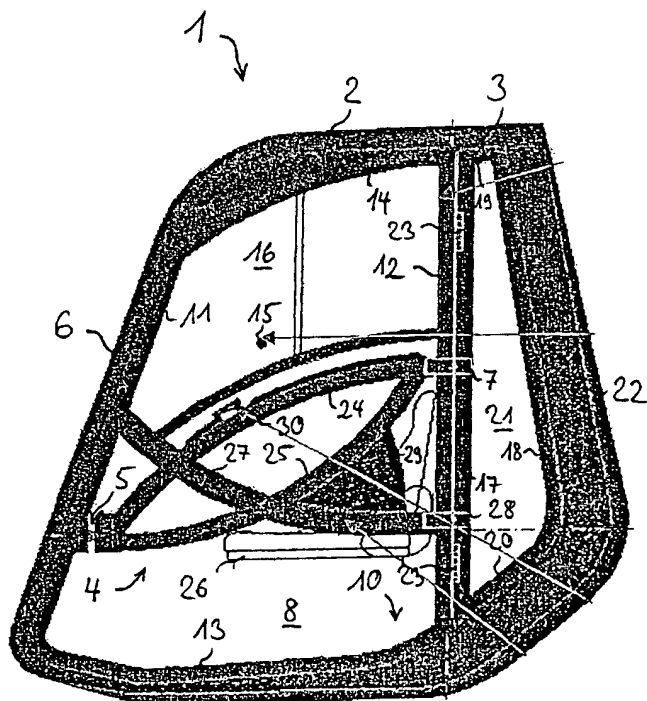
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B60R 21/02
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- (22) Internationales Anmeldedatum: **18. Dezember 2002 (18.12.2002)**
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- (26) Veröffentlichungssprache: **Deutsch**
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- (81) **Bestimmungsstaaten (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR,**

[Fortsetzung auf der nächsten Seite]

(54) Title: PROTECTIVE DOOR FOR DRIVERS' CABINS, IN PARTICULAR FOR UTILITY VEHICLES

(54) Bezeichnung: SCHUTZTÜR FÜR FAHRERKABINEN, INSBESONDERE VON NUTZFAHRZEUGEN



(57) Abstract: The invention relates to a protective door for drivers' cabins, in particular of utility vehicles. The aim of the invention is to achieve maximum flexibility in protecting the driver both against the weather and injury. To achieve this, the protective door has a first door element (2), comprising a restraining device (4) for the driver, which can be locked onto a front brace (6) of a driver's cabin to secure said driver against a lateral fall and a weatherproof unit (8), in addition to a second door element (3), which is adjacent to the first door element (2), can be fastened to a rear brace (22) of the driver's cabin and to which the restraining device (4) is hinged so that it can pivot, by means of a first hinge (7). The weatherproof unit (8) of the first door element (2) is hinged onto the second door element (3) by means of a second hinge (23), in such a way that it can pivot preferably through 180° between a closed position and a swung-open position independently of the restraining device (4).

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/DE 02/04652A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B60J5/04 B60R21/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 B60J B60R B62D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
WPI Data, PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 992 382 A (SCHNEIDER FAHRKOMFORT GMBH) 12 April 2000 (2000-04-12) cited in the application column 2, line 14 -column 2, line 20 abstract; figures 1-3 ----	1
A	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 11, 30 September 1999 (1999-09-30) & JP 11 170926 A (TOYOTA AUTOM LOOM WORKS LTD), 29 June 1999 (1999-06-29) abstract; figure 1 -----	1

☐ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

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- *G* document member of the same patent family

Date of the actual completion of the international search

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0992382	A	12-04-2000	DE 29818149 U1	07-01-1999
			EP 0992382 A2	12-04-2000
			JP 2000135986 A	16-05-2000
			KR 2000028924 A	25-05-2000
			US 2002153718 A1	24-10-2002
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JP 11170926	A	29-06-1999	NONE	
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